

United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandra, Virginia 22313-1450 WWW.USPLO.gov

APPLICATION NO.	FILING DAT	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/795,944	03/08/2004	Jeffrey Held	4001497.0022	1414	
4743	7590 05/	xos	EXAM	EXAMINER	
	LL, GERSTEIN	HRUSKOCI	HRUSKOCI, PETER A		
SEARS TO	CKER DRIVE, SUITE 6300 DWER ART UNIT PA				
CHICAGO	, IL 60606		1724		
			DATE MAN ED- 05/12/200	•	

DATE MAILED: 03/12/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
			~~			
Office Action Summany	10/795,944	HELD ET AL.				
Office Action Summary	Examiner	Art Unit				
	Peter A. Hruskoci	1724	<u>-</u>			
The MAILING DATE of this communication Period for Reply	appears on the cover sheet w	ith the correspondence addres	SS			
A SHORTENED STATUTORY PERIOD FOR RE THE MAILING DATE OF THIS COMMUNICATIO - Extensions of time may be available under the provisions of 37 CFI after SIX (6) MONTHS from the mailing date of this communication - If the period for reply specified above is less than thirty (30) days, a - If NO period for reply is specified above, the maximum statutory pe - Failure to reply within the set or extended period for reply will, by st Any reply received by the Office later than three months after the m earned patent term adjustment. See 37 CFR 1.704(b).	N. R 1.136(a). In no event, however, may a . reply within the statutory minimum of thir riod will apply and will expire SIX (6) MOI atute, cause the application to become A	reply be timely filed ty (30) days will be considered timely. NTHS from the mailing date of this commu BANDONED (35 U.S.C. § 133).	inication.			
Status						
1) Responsive to communication(s) filed on 2	1 March 2005.					
2a) This action is FINAL . 2b) This action is non-final.						
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice und	er <i>Ex par</i> te Quayle, 1935 C.D	D. 11, 453 O.G. 213.				
Disposition of Claims						
4)⊠ Claim(s) <u>14-26</u> is/are pending in the application	etion.					
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>14-26</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction ar	nd/or election requirement.	•				
Application Papers						
9)☐ The specification is objected to by the Exan	niner.					
10) The drawing(s) filed on is/are: a)		by the Examiner.	•			
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the	Examiner. Note the attache	d Office Action or form PTO-1	152.			
Priority under 35 U.S.C. § 119						
12)☐ Acknowledgment is made of a claim for fore	eian priority under 35 U.S.C.	§ 119(a)-(d) or (f).				
a) ☐ All b) ☐ Some * c) ☐ None of:		3 () ()				
1. Certified copies of the priority docum	ents have been received.					
2. Certified copies of the priority docum	ents have been received in A	Application No				
3. Copies of the certified copies of the p	priority documents have beer	received in this National Stag	ge			
application from the International Bu	· · · · · · · · · · · · · · · · · · ·					
* See the attached detailed Office action for a	list of the certified copies not	received.				
Attachmont(a)						
Attachment(s) 1) Notice of References Cited (PTO-892)	4) Interview	Summary (PTO-413)				
2) D Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Date				
Information Disclosure Statement(s) (PTO-1449 or PTO/SB Paper No(s)/Mail Date	/08) 5)	nformal Patent Application (PTO-152	2)			
U.S. Patent and Trademark Office	· · · · · · · · · · · · · · · · · · ·					
PTOL-326 (Rev. 1-04) Offic	e Action Summary	Part of Paper No./Mail Da	te 51005			

W

Art Unit: 1724

Claims 14-26 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claims contain subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventors, at the time the application was filed, had possession of the claimed invention. In claims 14, 21, and 23 "biologically-active cellular units" and "matter" lack clear antecedent basis in the specification as originally filed, and appear to be drawn to new matter. It is noted that the specification on pages 2-4 is drawn to the electroporation of waste-activated sludges containing intracellular and inter-cellular water, and the use of lysed cells as the food for the bioreactor. Claims 15-20, 22, 24, and 26 depend from the above claims.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 14-26 are rejected under 35 U.S.C. 103(a) as being unpatentable over Held et al. 6,491,820. Held et al. disclose (see col. 10 line 42 through col. 11 line 46) a method of treating a sludge substantially as claimed. The claims differ from Held et al. by reciting that the sludge contains biologically-active cellular units. It is submitted that the waste activated sludge treated in Held et al. is considered patentably indistinguishable from the sludge recited in the instant claims. It would have been obvious to one skilled in the art to modify the method of Held et al. by treating the recited sludge, to aid in providing food for the bioreactor. The use of an additional bioreactor would have been an obvious matter of process optimization to one skilled

Art Unit: 1724

in the art, depending on the specific wastewater treated and results desired, absent a sufficient showing of unexpected results.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Peter A. Hruskoci whose telephone number is (571) 272-1160. The examiner can normally be reached on Monday through Friday from 6:30AM-4:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Duane Smith can be reached on (571) 272-1166. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Primary Examiner
Art Unit 1724

5/10/05